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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,961	11/05/2001	Takeo Watanabe	01708/HG	6777
1933 75	90 04/07/2004		EXAMINER	
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC			VINCENT, SEAN E	
767 THIRD AV 25TH FLOOR	ENUE		ART UNIT	PAPER NUMBER
	NY 10017-2023		1731	
			DATE MAILED: 04/07/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

A .	Application No.	Applicant(s)	P1	
	09/992,961	WATANABE ET AL.	WATANABE ET AL.	
Office Action Summary	Examiner	Art Unit		
	Sean E Vincent	1731		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wi	th the correspondence addi	ress	
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirt will apply and will expire SIX (6) MON e, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this com ANDONED (35 U.S.C. § 133).	munication.	
Status	•			
1) Responsive to communication(s) filed on 08 Ja	anuary 2004.			
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.			
3) Since this application is in condition for alloward closed in accordance with the practice under E		·	nerits is	
Disposition of Claims				
 4) ☐ Claim(s) 1-35 is/are pending in the application 4a) Of the above claim(s) is/are withdraws 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-35 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	wn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on <u>05 November 2001</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11.	are: a) accepted or b) drawing(s) be held in abeyantion is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR	R 1.121(d).	
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	pplication No received in this National S	tage	
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application (PTO-1 	152)	

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DETAILED ACTION

Election/Restrictions

1. The election with traverse was received on January 8, 2004. The examiner has reconsidered the restriction requirement and decided to withdraw it. Claims 1-35 are examined in this office action.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are indefinite because the term "donut-shaped" does not have a clearly defined meaning. It is the position of the examiner that by setting forth a "glass substrate for information recording media" in the preamble, claim 1 adequately sets the stage for later recitations of inner and outer peripheral edges. This is further re-enforced by the applicant's specification at pages 1-3. There is no need to describe the substrate as "donut-shaped".

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-4 and 16 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Brannon (US 6521862). Brannon taught methods of preparing and smoothing glass substrates for information recording media including grinding and chamfering the edge surfaces (see abstract, figures, col. 2, lines 20-49; col. 3, lines 35-51 and claims 1-10.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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8. Claims 17-35 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Brannon. The disk substrates claimed appear to be identical to those disclosed by Brannon.

- 9. Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brannon in view of Kitayama et al (US 5725625).
- 10. Brannon did not teach polishing a major surface of the substrate followed by chemical strengthening. Applicant's acknowledged prior art in the paragraph bridging pages 2 and 3 of the specification and figure 9 describe these steps of a conventional method. Furthermore, Kitayama et al presented comprehensive examples of information recording media manufacturing including such polishing and strengthening steps as well as the preparation of recording layers on the substrates (see examples). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to polish a major surface of the substrates of Brannon and chemically strengthen the substrates of Brannon because Kitayama et al and the Applicant's own acknowledged prior art showed that these steps were well known in the art.

Allowable Subject Matter

- 11. Claims 5-13 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 12. The following is a statement of reasons for the indication of allowable subject matter:

 The prior art does not teach or fairly suggest methods as claimed wherein both the inner and

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outer edges were smoothed as claimed. While Brannon provided a sole example of a rotation speed for the disks during smoothing as 10 revs per second, no rotation speed control or critical ranges of *linear velocity* were set forth. It would not have been obvious to incorporate either of these features into the closest prior art disclosure from Brannon.

Conclusion

- 13. The prior art made of record and not relied upon is cited to further show the state of the art.
- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean E Vincent whose telephone number is (571) 272-1194. The examiner can normally be reached on M F (8:30 6:00).
- 15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sean E Vincent Primary Examiner Art Unit 1731

S Vincent